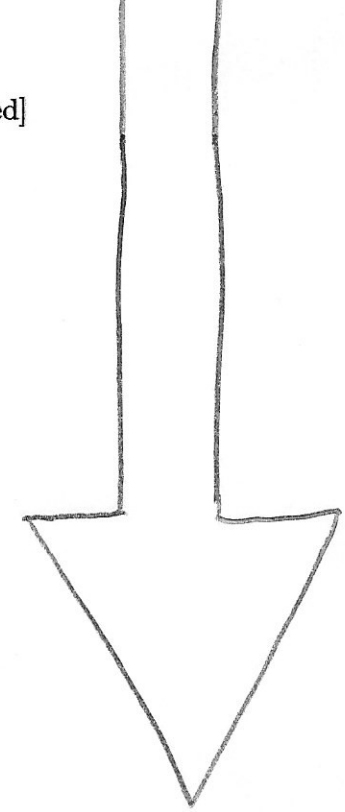
Math 213 Spring 2020 Name: Colin Morris-Moncada

Practice Quiz

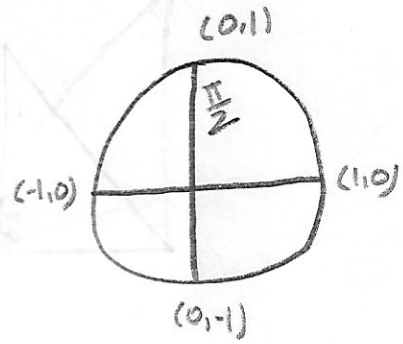
1. Draw a big arrow from the top of your first page to the middle of your second page (all the way to question 2). ↓

1. [continued]



2. Calculate $\sin\left(\frac{\pi}{2}\right)$ (is your calculator in Radian mode??)

$\sin\left(\frac{\pi}{2}\right) = 1$



3. Evaluate $\lim_{x\to\infty} e^x$ → $e \approx 2.718$

using properties of exponential functions of $f(x) = b^x$

if $b > 1$

$f(x) \to \infty$ as $x \to \infty$

$f(x) \to \phi$ as $x \to -\infty$

Therefore,

$\lim_{x\to x} e^x = \infty$

4. Evaluate $\lim_{x \to -\infty} e^x$

if $b > 1$

$f(x) \to \infty$ as $x \to \infty$

$f(x) \to \emptyset$ as $x \to -\infty$

Therefore,

$\lim_{x \to -\infty} e^x = \emptyset$

5. Draw a smiley face somewhere random so you can tell Gradescope what page to look on for this question. ☺